Amendments to the Specification:

Please replace the paragraph, beginning at page 2, line 12, with the following rewritten paragraph:

On the other hand, also as for a personal computer (to be described as "PC" as follows), Windows98 of Microsoft Corporation being a standard OS has ~~got~~been used to support the IEEE1394 officially and consequently the IEEE1394 is rapidly proliferating in the PC industry as well.

Please replace the paragraph, beginning at page 2, line 21, with the following rewritten paragraph:

Figure 1 is a construction of a source packet. In Figure 1, reference numeral 101 denotes a TS packet, reference numeral 102 ~~does~~denotes a source packet header, and reference numeral 103 does a source packet.

Please replace the paragraph, beginning at page 3, line 1, with the following rewritten paragraph:

Figure 2 is a construction of a source packet header 102. In Figure 2, reference numeral 201 denotes a time stamp and reference numeral 202 ~~does~~denotes spare information.

Please replace the paragraph, beginning at page 3, line 4, with the following rewritten paragraph:

Figure 3 denotes a construction example of CIP data. In Figure 3, reference numeral 301 denotes a CIP header and reference numeral 302 ~~does~~denotes CIP data.

Please replace the paragraph, beginning at page 3, line 7, with the following rewritten paragraph:

Figure 4 is a construction of an isochronous packet. In Figure 4, reference numeral 401 denotes the isochronous packet, reference numeral 402 ~~does~~denotes an isochronous header, reference numeral 403 ~~does~~denotes a header CRC and reference numeral 404 ~~does~~denotes data CRC.

Please replace the paragraph, beginning at page 3, line 12, with the following rewritten paragraph:

Figure 5 is a ~~conceptional~~conceptual view at the time of transmission of TS packets 101.

Please replace the paragraph, beginning at page 5, line 16, with the following rewritten paragraph:

However, actually, transmission ~~gitter~~jitter in the IEEE1394 bus and delay inside equipment and the like exist, and timing when the receiving party receives the isochronous packet mostly deviates from the original timing as in Figure 5.

Please replace the paragraph, beginning at page 6, line 1, with the following rewritten paragraph:

The time stamp 201 for use is a value subject to a certain constant offset onto the time when the TS packet 101 has arrived at the transmitter. The receiving party can reproduce the timing of the original stream by ~~outputs~~outputting to a decoder etc. at the time expressed by this time stamp 201. At this time, the timing of each TS packet will be ~~timing~~ subject to only delay covering the offset from the original stream as in Figure 5.

Please replace the paragraph, beginning at page 6, line 15, with the following rewritten paragraph:

Incidentally, when the TS packet as described above is transmitted with ~~the~~ IEEE1394, for example when the TS packet data are inputted to the transmitting party in real time, it will do so if the value of CTR inside the IEEE1394 interface is taken out at that point of time and an offset is added thereto to produce the time stamp.

Please replace the paragraph, beginning at page 7, line 22, with the following rewritten paragraph:

In addition, in the case where a part of or the whole of the IEEE1394 interface is constructed of software~~s~~ of the PC and the time stamp has to be produced with software~~s~~, when the CTR value is taken out from the IEEE1394 interface ~~to~~it give~~s~~ rise to a delay, ~~and~~ that delay amount is not constant and cannot be predicted, and therefore it is difficult to

produce an exact time stamp. However, according to this method, the value of the stored time stamp is utilized to determine the value of the time stamp to be added to the TS packet, and therefore, even if the whole of or a part of the IEEE1394 interface is constructed of softwares of a PC, exact time stamps can be produced.

Please replace the paragraph, beginning at page 8, line 10, with the following rewritten paragraph:

In addition, in case of a TS packet having been produced subject to encoding with ~~a~~ software of a PC, it is necessary to ~~completely~~ newly produce and add a value of the time stamp.

Please replace the paragraph, beginning at page 9, line 10, with the following rewritten paragraph:

In addition, ~~in the case where~~when the TS packet data are produced subject to encoding with ~~a~~ software of a PC for example, ~~in the case where~~when the TS packet data exist on the PC and this TS packet data ~~are going~~is to be transmitted with IEEE1394 from the PC, it is necessary that such a time stamp that can specify a transmission timing of the TS packet is produced in advance.

Please replace the paragraph, beginning at page 9, line 16, with the following rewritten paragraph:

However, a PC that can normally transmit with IEEE1394 the TS packets produced subject to encoding with a software of the PC is not known ~~in the world~~.

Please replace the paragraph, beginning at page 55, line 19, with the following rewritten paragraph:

Figure 7 is an example of a transmitting apparatus. In Figure 7, reference numeral 701 denotes a PC, reference numeral 702 ~~does~~denotes an IEEE1394 interface, reference numeral 703 ~~does~~denotes a CIP producing part, reference numeral 704 ~~does~~denotes a data reading part, reference numeral 705 ~~does~~denotes a time stamp sample judging part, reference numeral 706 ~~does~~denotes a hard disk, reference numeral 707 ~~does~~denotes an IEEE1394 bus and reference numeral 708 ~~does~~denotes a receiving apparatus.

Please replace the paragraph, beginning at page 56, line 14, with the following rewritten paragraph:

At first in the hard disk 706, TS packet data are stored in a format as in Figure 8. That is, in the hard disk 706, a time stamp that the transmitting party of the TS packet data has added ~~to~~is stored together with the TS packet data ~~is stored together~~.

Please replace the paragraph, beginning at page 56, line 23, with the following rewritten paragraph:

The time stamp sample judging part 705 extracts the time stamp 201 from the received source packet header 102, notifies the CIP producing part 703 which ~~one is the~~ source packets 103 ~~that has~~have the same value as the Cycle_Count of the time stamp 201 and is brought into connection in series, and instructs those source packets to get together to construct one CIP data.

Please replace the paragraph, beginning at page 57, line 10, with the following rewritten paragraph:

The CIP producing part ~~902~~703 produces CIP data 302 ~~to~~from the received source packet 103 and outputs ~~them~~CIP data 302 to an IEEE1394 interface ~~901 from the received source packet 103~~702 according to the method that has been described in the prior arts.

Please replace the paragraph, beginning at page 57, line 18, with the following rewritten paragraph:

In addition, the time stamp sample judging part 705 ~~brings~~compares the Cycle_Count of the extracted time stamp 201 and the Cycle_Count of the time stamp 201 included in the immediately prior source packet 103 ~~into comparison~~ and instructs 703 to insert (N-1) units of Empty packets between those source packets in the case where the difference N between both the parties is 2 or more.

Please replace the paragraph, beginning at page 58, line 1, with the following rewritten paragraph:

The CIP producing party 703 receives an instruction to insert the Empty packet, and then produces the CIP data 302 constructed only of the CIP header 301 to output them to the IEEE1394 interface 702.

Please replace the paragraph, beginning at page 58, line 11, with the following rewritten paragraph:

The IEEE1394 interface 702 adds an isochronous header 402, a header CRC 403 and data CRC 404 to the received CIP data 302 as in Figure 4 so as to create isochronous packet 401 for an output to an IEEE1394 bus ~~706~~707.

Please replace the paragraph, beginning at page 58, line 17, with the following rewritten paragraph:

As described so far, the isochronous packet 401 is constructed from the TS packet data stored in the hard disk 706 and can be outputted to the IEEE1394 bus ~~706~~707.

Please replace the paragraph, beginning at page 59, line 16, with the following rewritten paragraph:

In addition, a part of or the whole transmitting apparatus may be constructed of softwares, or the transmitting apparatus may not be a PC.

Please replace the paragraph, beginning at page 62, line 13, with the following rewritten paragraph:

In Step 116, the value of X2 is judged, and in case of X2=0, the step goes forward to Step ~~116~~117, and otherwise the step goes forward to Step 118.

Please replace the paragraph, beginning at page 65, line 3, with the following rewritten paragraph:

Figure 15 is a flowchart describing operations of the time stamp sample judging part 705. In Figure 15, reference numeral 1301 denotes a buffer for final difference value and reference numeral 1302 ~~does~~denotes a shunting buffer.

Please replace the paragraph, beginning at page 66, line 3, with the following rewritten paragraph:

In Step 205, (0, N~~0~~$_0$-1) is added to the transmission packet mode list 1101 and J is substituted for X1 and 1 is for Y1 in Step 206 (N_0) respectively.

Please replace the paragraph, beginning at page 67, line 11, with the following rewritten paragraph:

In Step 209, processes in Figures 11 to 13 having been described in the second Embodiment are subsequently executed on the received source packets 103 so that in Step 210, it is judged whether or not processes on the (T-J) units of source packets 103 have been entirely finalized, and if all are finalized, the step goes forward to Step 210, and otherwise the step goes back to Step 209 so that ~~processes~~processing proceeds on the next source packet ~~proceed~~.

Please replace the paragraph, beginning at page 68, line 23, with the following rewritten paragraph:

In addition, a part of or the whole of each Step in Figure 15 may be constructed of software~~s~~.

Please replace the paragraph, beginning at page 69, line 19, with the following rewritten paragraph:

Incidentally, at the time when MPEG2-TS data are transmitted, in the case where a data rate is sufficiently low, the source packet 103 can be split to construct the CIP data ~~304~~302 so that the transmitting band width of the IEEE1394 bus for use is made less. For example, in case of Figure 19, the source packet 103a with 192 bytes are split into a splitting block 1701a1 and a splitting block 1701a2 respectively with 96 bytes. To this splitting block 1701a1, the CIP header 301 is added to construct the CIP data 302 as in the case where splitting does not take place.

Please replace the paragraph, beginning at page 71, line 23, with the following rewritten paragraph:

In addition, in case of N>(A+1), after the CIP producing part ~~1062~~1602 is instructed to insert (N-A-1) units of Empty packets, the received source packet 103 is split into M=2 units and the CIP producing part 1602 is instructed to construct the CIP data 301.

Please replace the paragraph, beginning at page 73, line 10, with the following rewritten paragraph:

In addition, upon receipt of instruction to insert the Empty packet, the CIP producing part ~~902~~1602 produces the CIP data 302 constructed only of the CIP header 301 to output them to the IEEE1394 interface 702.

Please replace the paragraph, beginning at page 73, line 14, with the following rewritten paragraph:

The IEEE1394 interface 702 adds an isochronous header 402, a header CRC 403 and data CRC 404 to the received CIP data 302 as in Figure 4 so as to create isochronous packet 401 for an output to an IEEE1394 bus ~~706~~707.

Please replace the paragraph, beginning at page 73, line 20, with the following rewritten paragraph:

As described so far, splitting the TS packet data stored in the hard disk 706, the isochronous packet 401 is constructed and can be outputted to the IEEE1394 bus ~~706~~707.

Please replace the paragraph, beginning at page 77, line 7, with the following rewritten paragraph:

In addition, a part of or the whole of each Step in Figure 15 may be constructed of softwares.

Please replace the paragraph, beginning at page 77, line 14, with the following rewritten paragraph:

In Figure 24, reference numeral 2401 denotes a time stamp adding part, reference numeral 2402 ~~does~~denotes a TS packet generating part, reference numeral 2403 ~~does~~denotes a data reading part, reference numeral ~~204~~2404 ~~does~~denotes a transmitting part, reference numeral 2405 ~~does~~denotes a hard disk, reference numeral 2406 ~~does~~denotes

a PC, reference numeral 2407 ~~does~~denotes time information, and reference numeral 2408 ~~does~~denotes a PS (Program Stream) packet.

Please replace the paragraph, beginning at page 79, line 20, with the following rewritten paragraph:

As described so far, from the TS packet 103 as well as the time information 2407 generated from the PS packet data stored in the hard disk 2405, the time stamp 201 is generated and added so that the source packet 103 is generated and the isochronous packet 401 is constructed from the source packet 103 and can be outputted to the IEEE1394 bus ~~706~~707.